

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A micromirror actuator comprising:

a substrate;

posts formed to a predetermined height on the substrate and spaced a predetermined distance apart;

a ~~torsion~~ torsion bar fixed to the posts;

a mirror coupled to the torsion bar; ~~and~~

a groove including an inclined contact surface and formed in the substrate, the inclined contact surface contacting ~~the a lower, bottom~~ surface of the mirror when the mirror is rotated; and

a magnet for generating forces to drive the mirror taking advantage of an external magnetic field, the magnet formed at one end of the mirror relative to said torsion bar corresponding to the inclined contact surface and a reflective surface on the other end of the mirror, such that when said mirror contacts said inclined contact surface at said one end, said reflective surface reflects light traveling parallel to a plane of said substrate of said other end.

2. (Currently Amended) The micromirror actuator of claim 1 further comprising:

a clamping electrode for generating electrostatic forces to clamp the mirror, the clamping electrode formed on the inclined contact surface of the groove; ~~and~~

~~a magnet for generating forces to drive the mirror taking advantage of an external magnetic field, the magnet formed at one side of the mirror corresponding to the inclined contact surface.~~

3. (Original) The micromirror actuator of claim 1, wherein the torsion bar is formed on the same plane as the mirror and the mirror is formed to rotate about the torsion bar.

4. (Original) The micromirror actuator of claim 2, wherein the torsion bar is formed on the same plane as the mirror and the mirror is formed to rotate about the torsion bar.

5. (Currently Amended) The micromirror actuator of claim 4, wherein a plurality of magnets are arranged on ~~an area~~ the end of the mirror corresponding to the inclined contact surface.

6. (Currently Amended) The micromirror actuator of claim 1, wherein a plurality of magnets are arranged on ~~an area~~ the end of the mirror corresponding to the inclined contact surface.

7. (Canceled)

8. (New) The micromirror actuator of claim 2, wherein the torsion bar is formed on the same plane as the mirror and the mirror is formed to rotate about the torsion bar.

9. (New) The micromirror actuator of claim 2, wherein a plurality of magnets are arranged on the end of the mirror corresponding to the inclined contact surface.